WEST Search History

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DATE: Friday, June 30, 2006

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☐	L161	726/$.ccls. and ((watermark near2 key) and (encrypt$6 near2 portion))	4
☐	L160	382/$.ccls. and ((watermark near2 key) and (encrypt$6 near2 portion))	4
☐	L159	352/$.ccls. and ((watermark near2 key) and (encrypt$6 near2 portion))	0
☐	L158	380/$.ccls. and ((watermark near2 key) and (encrypt$6 near2 portion))	9
☐	L157	713/$.ccls. and ((watermark near2 key) and (encrypt$6 near2 portion))	13
☐	L156	((watermark near2 key) and (encrypt$6 near2 portion)).clm.	3
☐	L155	((watermark near3 contain$5 near2 key) and (encrypt$6 near2 portion)).clm.	1
☐	L154	((non adj encrypt$6 near3 MPEG) same (encrypt$7 near5 MPEG))	8
☐	L153	((non adj encrypt$6 near3 MPEG near6 period) same (encrypt$7 near5 MPEG near6 period))	1
☐	L152	L147 and ((non adj encrypt$6 near3 MPEG near6 period) same (encrypt$7 near5 MPEG near6 period))	0
☐	L151	L147 ((non adj encrypt$6 near3 MPEG near6 period) same (encrypt$7 near5 MPEG near6 period))	332
☐	L150	L147 (non adj encrypt$6 near3 MPEG same encrypt$7 near5 MPEG)	339
☐	L149	L148 and MPEG	36
☐	L148	L147 and (key$6 near7 (block$6 or portion43 or segment$3))	64
☐	L147	L137	331
☐	L146	watermark same (pre adj view or preview) and (commercial or advertis$7)	38
☐	L145	watermark same (pre adj view or preview)	85
☐	L144	watermark near3 (pre adj view or preview)	19
☐	L143	insert$7 near2 watermark near5 executable	9
☐	L142	L138 same commercial	13
☐	L141	L138 near5 executab$7 and advertiz$7	0
☐	L140	L138 near5 executab$7 same advertiz$7	0
☐	L139	L138 near5 executab$7	11
☐	L138	watermark$6 near2 object$7	733
☐	L137	L136 and (encrypt$7 same watermark$7)	331
☐	L136	(352/1 |352/19 |352/26 |716/168 |716/176 |380/200 |382/100).ccls.	2623
☐	L135	watermark$7 same encyption adj key	0
☐	L134	insert$7 same encyption adj key	0
☐	L133	insert$7 near10 encyption adj key	0

☐	L132	insert$7 near4 encyption adj key	0
☐	L131	insert$7 near4 encyption adj key	0
☐	L130	insert$7 near4 encyption adj key near10 watermark$8	0
☐	L129	insert$7 near4 key near10 watermark$8	85
☐	L128	(TANAKA near2 NOBUYUKI) and (watermark$6 same encrypt$7)	5
☐	L127	(TANAKA near2 NOBUYUKI) and (watermark$6 sameencrypt$7)	22
☐	L126	(TANAKA near2 NOBUYUKI) and (watermark$6 or encrypt$7)	23
☐	L125	5636292.pn.	2
☐	L124	L123 same watermark$7	10
☐	L123	encrypt$7 adj key same frame$6	669
☐	L122	CBC same watermark$7	4
☐	L121	L120 and (watermark same encrypt$8 same portion$6)	3
		DB=USPT,PGPB; PLUR=YES; OP=OR	
☐	L120	('5343527'| '5613004'| '5638443'| '5745569'| '5822432'| '5825892'| '5905800'| '5905819'| '6141753'| '6330672'| '6411725'| '6522767'| '20010010078')![pn]	13
		DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=OR	
☐	L119	L118 and (watermark$6 near4 encryption adj key)	18
☐	L118	(713/176).ccls.	1859
☐	L117	watermark near5 (embed$7 or contain$7) near4 first adj key	2
☐	L116	MPEG same watermark same encryption and (next same sequence$3)	1
☐	L115	MPEG same watermark same encryption and (next near3 sequence$3)	0
☐	L114	MPEG same watermark same encryption and sequence$3	36
☐	L113	MPEG same watermark same encryption and "n-1"	5
☐	L112	L107 same key and divid$7	20
☐	L111	L107 same key same divid$7	2
☐	L110	L107 same key	40
☐	L109	L107 same alternat$7	8
☐	L108	L107 same period$7	2
☐	L107	MPEG same watermark same encryption	58
		DB=PGPB,USPT; PLUR=YES; OP=OR	
☐	L106	MPEG same watermark same encfryption	0
		DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=OR	
☐	L105	6674874 and (encrypt$8)	1
		DB=PGPB,USPT; PLUR=YES; OP=OR	
☐	L104	L100 and (watermark same key$6 same plurality)	52
☐	L103	L100 and (watermark same key same plurality)	52
		DB=USPT,PGPB; PLUR=YES; OP=OR	
☐	L102	('5600720'| '5666419'| '6141753'| '6330672'| '6385329'| '6385596')![pn]	6

DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=OR

☐	L101	L100 and (plurality near3 encryption adj key$4)	8
☐	L100	(713/176).ccls.	1859
☐	L99	6519352.pn. and encryption	1
☐	L98	6353672 and encryption	11
☐	L97	6353672.pn.	2
☐	L96	watermark near2 (contain$6 or inster$5 or embed$7) near2 encryption adj key	8
☐	L95	6865550.pn.	2
☐	L94	(embed$7 or hid$7) adj encryption adj key	72
☐	L93	6141753.pn.	2
☐	L92	6301663 and (watermark and key)	9
☐	L91	6301663 and (watermark and encryption adj key)	4
☐	L90	6301663 and (watermark same encryption adj key)	3
☐	L89	6301663	18
☐	L88	6301663.pn.	2
☐	L87	(embed$6 or insert$6)adj key same watermark$7 same encrypt$8	14
☐	L86	(embed$6 or insert$6)adj key same watermark$7 and encrypt$8	69
☐	L85	(embed$6 or insert$6)adj key same watermark$7	100
☐	L84	L81 same watermark$7	23
☐	L83	L81 and watermark$7	36
☐	L82	L81 same plurality near2 keys	1
☐	L81	embed$7 near4 encryption adj key	136
☐	L80	6425081.pn.	2
☐	L79	6426081.pn.	2
☐	L78	5991426.pn.	2
☐	L77	20030009669	3
☐	L76	2003009669	5
☐	L75	2003009669	5
☐	L74	20010004736	2
☐	L73	stega$7 and encryption adj key	6
☐	L72	stega$7 same encryption adj key	0
☐	L71	stega$7 near6 encryption adj key	0
☐	L70	5862260.pn.	2
☐	L69	L66 and encryption	7
☐	L68	L67 and watermark	6
☐	L67	L66 and encryption	7

DB=USPT,PGPB; PLUR=YES; OP=OR

('5778102'| '6175639'| '6208745'| '6222932'| '6285775'| '6310962'| '6341350'| '6359999'|

☐	L66	'6373960'| '6404926'| '6449378'| '6512837'| '6587821'| '6639996'| '20020087864')![pn]	15
	DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=OR		
☐	L65	L64 and encryption	4
☐	L64	(TANAKA near2 NOBUYUKI) and watermark	21
	DB=USPT,PGPB; PLUR=YES; OP=OR		
☐	L63	('5613004'| '5905800'| '6131161'| '6141753')![pn]	4
	DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=OR		
☐	L62	(embed$5 near3 key near3 watermark$7) same encryption	30
☐	L61	(embed$5 near3 key near3 watermark$7) sameencryption	229
☐	L60	(embed$5 near3 key near3 watermark$7) and encryption	123
☐	L59	(embed$5 near3 key near3 watermark$7)	229
☐	L58	L57 and (embed$5 near3 encryption adj key)	7
☐	L57	(713/176).ccls. and (watermark$7 with encrypt$7 with key)	119
☐	L56	(713/176).ccls. and (insert$4 near2 encrypt$7 adj key)	6
☐	L55	(713/176).ccls. and (insert near2 encrypt$7 adj key)	4
☐	L54	L51 same (encrypt$8 with insert$7)	3
☐	L53	L51 with encrypt$8 with insert$7	2
☐	L52	L51 with encrypt$8	67
☐	L51	watermark with contain$7 with key	159
☐	L50	insert$6 near2 encryption adj key same watermark	1
☐	L49	insert$6 near2 envryption adj key same watermark	0
☐	L48	insert adj envryption adj key same watermark	0
☐	L47	L46 same encrypt$8	16
☐	L46	insert$6 near4 key near4 watermark$8	70
☐	L45	watermark$7 same set adj key$6 same encrypt$7	22
☐	L44	20010004736	2
☐	L43	20030009669	3
☐	L42	multimedia same watermark same encryption same key$7	23
☐	L41	L40 and watermark	6
☐	L40	Kato near3 Hiroshi	2664
☐	L39	Kato near3 Hiroshi and watermark and key	2
☐	L38	Kato near3 Hiroshi and watermark	6
☐	L37	L36 and (embed$7 near3 encrypt$6 adj key near3 watermark$6)	4
☐	L36	(713/176).ccls.	1859
☐	L35	(713/176).ccls. and stega$7 and key	20
☐	L34	(713/176).ccls. and stega$7 and (encryption adj key)	1
☐	L33	(713/176).ccls. and stega$7	23
☐	L32	KIENZLE near2 MARTIN and stega$7	0

DB=PGPB; PLUR=YES; OP=OR

☐ L31 09/528,456 0

DB=PGPB,USPT; PLUR=YES; OP=OR

☐ L30 09/528,456 1

DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=OR

☐ L29 09 near2 528,456 0

DB=PGPB,USPT; PLUR=YES; OP=OR

☐ L28 09 near2 528456 0

DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=OR

☐ L27 09/528456 1

☐ L26 (encryption adj key near3 watermark) and first adj portion and key 3

☐ L25 (encryption adj key near3 watermark) and first adj portion 3

☐ L24 (encryption adj key near3 watermark) same first adj portion 1

☐ L22 L21 and (key.clm.) 55

☐ L21 (steganogra$7).clm. 234

☐ L20 steganogra$7 near6 embed$8 same key 44

☐ L19 encrypt$7 near3 key near3 embed$6 near3 watermark$7 36

☐ L18 encrypt$7 near3 key near3 contained near3 watermark$7 5

DB=PGPB,USPT; PLUR=YES; OP=OR

☐ L17 (TANAKA near2 NOBUYUKI) and watermark$5 and key 3

☐ L16 (TANAKA near2 NOBUYUKI) and watermark and key 3

DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=OR

☐ L15 (TANAKA near2 NOBUYUKI) and watermark and jey 0

DB=PGPB,USPT; PLUR=YES; OP=OR

☐ L14 embed$7 near3 key near3 watermark$7 same encrypt$7 41

DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=OR

☐ L13 L11 same first adj portion same second adj portion 2

DB=PGPB,USPT; PLUR=YES; OP=OR

☐ L12 L11 same first adj portion same second adj portion 2

☐ L11 embed$7 near3 key near3 watermark$7 196

☐ L6 L5 and watermark 1

DB=USPT,PGPB; PLUR=YES; OP=OR

☐ L5 ('4200700'| '4405829'| '5008935'| '5048086'| '5159633'| '5177790'| '5613004'| '5778074')![pn] 8

DB=USPT; PLUR=YES; OP=OR

☐ L4 '5778074'.pn. 1

DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=OR

☐ L3 stegano$7 same encryption adj key 28

☐ L2 encrypt$6 adj ket near10 embed$7 near5 watermark 0

☐ L1 encrypt$6 adj ket near10 embed$7 near5 watermark same portion 0

END OF SEARCH HISTORY

Terms used **watermarking encryption audio video copy protection MPEG**

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1 A secure multicast protocol with copyright protection

Hao-hua Chu, Lintian Qiao, Klara Nahrstedt, Hua Wang, Ritesh Jain
April 2002 **ACM SIGCOMM Computer Communication Review**, Volume 32 Issue 2
Publisher: ACM Press
Full text available: pdf(301.97 KB) Additional Information: full citation, abstract, references, citings, index terms

We present a simple, efficient, and secure multicast protocol with copyright protection in an open and insecure network environment. There is a wide variety of multimedia applications that can benefit from using our secure multicast protocol, e.g., the commercial pay-per-view video multicast, or highly secure military intelligence video conference. Our secure multicast protocol is designed to achieve the following goals. (1) It can run in any open network environment. It does not rely on any sec ...

Keywords: copyright protection, key distribution, multicast security, watermark

2 Software issues: Towards a software architecture for DRM

Sam Michiels, Kristof Verslype, Wouter Joosen, Bart De Decker
November 2005 **Proceedings of the 5th ACM workshop on Digital rights management DRM '05**
Publisher: ACM Press
Full text available: pdf(296.34 KB) Additional Information: full citation, abstract, references, index terms

The domain of digital rights management (DRM) is currently lacking a generic architecture that supports interoperability and reuse of specific DRM technologies. This lack of architectural support is a serious drawback in light of the rapid evolution of a complex domain like DRM. It is highly unlikely that a single DRM technology or standard will be able to support the diversity of devices, users, platforms, and media, or the wide variety of system requirements concerning security, flexibility, a ...

Keywords: DRM, software architecture

3 Systems and architectures: DRM as a layered system

Pramod A. Jamkhedkar, Gregory L. Heileman
October 2004 **Proceedings of the 4th ACM workshop on Digital rights management**

Publisher: ACM Press
Full text available: pdf(215.18 KB) Additional Information: full citation, abstract, references, index terms

The current landscape for digital rights management(DRM) consists of various ad hoc technologies and platforms that largely focus on copy protection. The fragmented nature of the DRM industry in 2004 is somewhat reminiscent of the telecommunications industry in the late 1980's. At that time various networking technologies were available, and what was needed was a technology that could integrate existing networks and provide various services to users. The OSI layered framework and the TCP/IP c ...

Keywords: DRM, OSI layers, content protection

4 Session 1: multimedia networking: An MPEG performance model and its application to adaptive forward error correction
Ketan Mayer-Patel, Long Le, Georg Carle
December 2002 **Proceedings of the tenth ACM international conference on Multimedia**
Publisher: ACM Press
Full text available: pdf(180.22 KB) Additional Information: full citation, abstract, references, citings

We present a general analytical model for predicting the reconstructed frame rate of an MPEG stream. Our model captures the temporal relationships between I-, P, and B-frames but is independent of the channel and media characteristics. We derive an adaptive FEC scheme from the general model and verify it by comparing it to the results of a simulation. The prediction error of the model compared to the simulation for a wide array of parameter values is less than 5%. We then use the derived adaptiv ...

5 A new transport protocol for broadcasting/multicasting MPEG-2 video over wireless ATM access networks
Hairuo Ma, Magda El Zarki
July 2002 **Wireless Networks**, Volume 8 Issue 4
Publisher: Kluwer Academic Publishers
Full text available: pdf(201.01 KB) Additional Information: full citation, abstract, references, index terms

Because of the telecommunications de-regulation act and progress in wireless technologies, we will see the co-existence of heterogeneous broadband access infrastructures in the broadband video service industry in the near future. In this paper, we addressed the error control issue when transmitting MPEG-2 video streams over wireless access networks for broadband video broadcast or multicast services. An end-to-end transport protocol based on ATM and wireless ATM technologies is proposed. For vid ...

Keywords: FEC, MEPG-2 broadcast/multicast, WATM, header redundancy, real-time, video quality

6 Protecting VoD the easier way
Carsten Griwodz, Oliver Merkel, Jana Dittmann, Ralf Steinmetz
September 1998 **Proceedings of the sixth ACM international conference on Multimedia**
Publisher: ACM Press
Full text available: pdf(897.94 KB) Additional Information: full citation, references, citings, index terms

Keywords: copyright protection, corruption, multimedia, vidio-on-demand

7 Poster 2: applications track: Implementation of a mobile MPEG-21 peer

Shane Lauf, Ian Burnett
November 2005 **Proceedings of the 13th annual ACM international conference on Multimedia MULTIMEDIA '05**
Publisher: ACM Press
Full text available: pdf(91.15 KB) Additional Information: full citation, abstract, references, index terms

The MPEG-21 Multimedia Framework aims to realize interoperable access to content across heterogeneous networks and devices. Within the Framework, the concept of Digital Items is introduced as a structured digital representation for multimedia. To demonstrate the applicability of MPEG-21 to seamless multimedia interactions on limited platforms, the authors have produced an implementation of MPEG-21 for a mobile device, in Java 2 Micro Edition (J2ME). This paper examines the design and implementat ...

Keywords: MPEG-21, mobile applications, multimedia

8 Robust MPEG video watermarking technologies

Jana Dittmann, Mark Stabenau, Ralf Steinmetz
September 1998 **Proceedings of the sixth ACM international conference on Multimedia**
Publisher: ACM Press
Full text available: pdf(1.03 MB) Additional Information: full citation, references, citings, index terms

Keywords: copyright protection, digital watermarking for MPEG video, security and the media

9 Open Source in MPEG

Leonardo Chiariglione
March 2001 **Linux Journal**
Publisher: Specialized Systems Consultants, Inc.
Full text available: html(28.22 KB) Additional Information: full citation, abstract, references, index terms

A History of MPEG.

10 DRM usability and legal issues: Import/export in digital rights management

Reihaneh Safavi-Naini, Nicholas Paul Sheppard, Takeyuki Uehara
October 2004 **Proceedings of the 4th ACM workshop on Digital rights management**
Publisher: ACM Press
Full text available: pdf(211.60 KB) Additional Information: full citation, abstract, references, index terms

The inherently controlled nature of digital rights management systems does little to promote inter-operability of systems provided by different vendors. In this paper, we consider import and export functionality by which multimedia protected by one digital rights management regime can be made available to a multimedia device that supports a different digital rights management regime, without compromising the protection afforded to the content under the original regime. We first identify speci ...

Keywords: digital rights management, export, import, inter-operability

11 Robust compression and transmission of MPEG-4 video

Steven Gringeri, Roman Egorov, Khaled Shuaib, Arianne Lewis, Bert Basch
October 1999 **Proceedings of the seventh ACM international conference on Multimedia**

(Part 1)
Publisher: ACM Press

Full text available: pdf(1.46 MB) Additional Information: full citation, abstract, references, citings, index terms

This paper discusses issues related to the delivery of MPEG-4 video over the Internet and wireless channels. MPEG-4's built-in error resilience capabilities such as flexible re-synchronization markers, data partitioning, header protection, reversible VLCs, and forced intra-frame refresh are described. Methods for using these techniques to build a "smart" network decoder are discussed, and the decoder's video quality is measured for various channel error conditions. The effective ...

Keywords: MPEG-4, error mitigation, error resilience, robust video

12 Streaming: Adjusting forward error correction with quality scaling for streaming MPEG

Huahui Wu, Mark Claypool, Robert Kinicki
June 2005 **Proceedings of the international workshop on Network and operating systems support for digital audio and video NOSSDAV '05**
Publisher: ACM Press
Full text available: pdf(171.44 KB) Additional Information: full citation, abstract, references, index terms

Packet loss can severely impact streaming video quality. Repair techniques protect streaming video from packet loss but at the price of a reduced effective transmission rate when streaming a flow in a capacity constrained situation. This paper proposes an algorithm that optimizes the choice of Forward Error Correction (FEC) to repair packet loss for streaming MPEG videos under a capacity constraint with quality scaling. An analytic model is developed to estimate the video quality of streaming MP ...

Keywords: forward error correction, quality scaling, streaming MPEG

13 Adjusting forward error correction with temporal scaling for TCP-friendly streaming MPEG

Huahui Wu, Mark Claypool, Robert Kinicki
November 2005 **ACM Transactions on Multimedia Computing, Communications, and Applications (TOMCCAP)**, Volume 1 Issue 4
Publisher: ACM Press
Full text available: pdf(553.53 KB) Additional Information: full citation, abstract, references, index terms

New TCP-friendly constraints require multimedia flows to reduce their data rates under packet loss to that of a conformant TCP flow. To reduce data rates while preserving real-time playout, temporal scaling can be used to discard the encoded multimedia frames that have the least impact on perceived video quality. To limit the impact of lost packets, Forward Error Correction (FEC) can be used to repair frames damaged by packet loss. However, adding FEC requires further reduction of multimedia dat ...

Keywords: MPEG, Multimedia networking, TCP-friendly, forward error correction

14 Layered unequal loss protection with pre-interleaving for fast progressive image transmission over packet-loss channels

Jianfei Cai, Xiangjun Li, Chang Wen Chen
November 2005 **ACM Transactions on Multimedia Computing, Communications, and Applications (TOMCCAP)**, Volume 1 Issue 4
Publisher: ACM Press

Full text available: pdf(2.06 MB) Additional Information: full citation, abstract, references, index terms

Most existing unequal loss protection (ULP) schemes do not consider the minimum quality requirement and usually have high computation complexity. In this research, we propose a layered ULP (L-ULP) scheme to solve these problems. In particular, we use the rate-based optimal solution with a local search to find the average forward error correction (FEC) allocation and use the gradient search to find the FEC solution for each layer. Experimental results show that the executing time of L-ULP is much ...

Keywords: Progressive image transmission, forward error correction, joint source-channel coding, packet loss, unequal loss protection

15 Methods for encrypting and decrypting MPEG video data efficiently

Lei Tang
February 1997 **Proceedings of the fourth ACM international conference on Multimedia**
Publisher: ACM Press
Full text available: pdf(1.45 MB) Additional Information: full citation, references, citings, index terms

Keywords: MPEG codec, compression, multimedia commerce, multimedia encryption, multimedia security

16 Security: Privacy protection for signed media files: a separation-of-duty approach to the lightweight DRM (LWDRM) system

Rüdiger Grimm, Patrick Aichroth
September 2004 **Proceedings of the 2004 workshop on Multimedia and security MM&Sec '04**
Publisher: ACM Press
Full text available: pdf(256.47 KB) Additional Information: full citation, abstract, references, index terms

The aim of strong digital rights management (DRM) is to enforce usage rules in end-user devices on behalf of content providers. Strong DRM is not well accepted by customers. Moreover, strong DRM is repeatedly circumvented and broken. Since Napster (and all its Peer-to-Peer follow-ups), the Internet is flooded with illegal digital content. We introduce the LWDRM technology as an alternative model. LWDRM relies on responsible behavior of customers. However, LWDRM contains a privacy problem, in tha ...

Keywords: LWDRM, light weight digital rights management, privacy, pseudonyms, separation of duty, virtual goods

17 Forward error control for MPEG-2 video transport in a wireless ATM LAN

Ender Ayanoglu, Pramod Pancha, Amy R. Reibman, Shilpa Talwar
December 1996 **Mobile Networks and Applications**, Volume 1 Issue 3
Publisher: Kluwer Academic Publishers
Full text available: pdf(439.61 KB) Additional Information: full citation, abstract, references, citings, index terms

The possibility of providing multimedia services to mobile users has led to interest in designing broadband wireless networks that can guarantee quality of service for traffic flows. However, a fundamental problem in these networks is that severe losses may occur due to the random fading characteristics of the wireless channel. Error control algorithms which compensate for these losses are required in order to achieve reasonable loss rates. In this paper, the performance of error control ba ...

18 Multimedia content protection by cryptography and watermarking in tamper-resistant hardware

Feng Bao
November 2000 **Proceedings of the 2000 ACM workshops on Multimedia**
Publisher: ACM Press
Full text available: pdf(386.63 KB) Additional Information: full citation, abstract, references, index terms

With the rapid growth of broadband network, distribution of multimedia via Internet is a must way to go. Content protection has become one of the most significant and challenging problems of this field. In this paper, we propose a general scheme that combines public key cryptography and watermarking technology together, to achieve wonderful content protection. The scheme is reliable, flexible and efficient.

Keywords: multimedia content protection, public key cryptography, tamper-resistant hardware, watermarking technology

19 A fast MPEG video encryption algorithm

Changgui Shi, Bharat Bhargava
September 1998 **Proceedings of the sixth ACM international conference on Multimedia**
Publisher: ACM Press
Full text available: pdf(805.58 KB) Additional Information: full citation, references, citings, index terms

Keywords: DES, MPEG codec, MPEG video encryption, multimedia data security

20 MPEG-4: an object-based multimedia coding standard supporting mobile applications

Atul Puri, Alexandros Eleftheriadis
June 1998 **Mobile Networks and Applications**, Volume 3 Issue 1
Publisher: Kluwer Academic Publishers
Full text available: pdf(747.80 KB) Additional Information: full citation, abstract, references, citings, index terms, review

The ISO MPEG committee, after successful completion of the MPEG-1 and the MPEG-2 standards is currently working on MPEG-4, the third MPEG standard. Originally, MPEG-4 was conceived to be a standard for coding of limited complexity audio-visual scenes at very low bit-rates; however, in July 1994, its scope was expanded to include coding of scenes as a collection of individual audio-visual objects and enabling a range of advanced functionalities not supported by other standards. One of the ke ...

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